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AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-12-27-26** **Date: 26-11-22**
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Address	:	Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Project Name	:	Maintenance of UGD lines in Vinayakanagara and Varadarajanagara Areas in ward No.11 Kuvempunagara
Agency	:	Sri. Charan N S, No,186, 9th Cross, CIL Layout, Cholanayakanahalli, RT nagar, Bangalore-32
Customer's Reference	:	EE(Project)/Ynk Zone/WO/101/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-11-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	24-11-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.46	–
2	Finess by Air permeablity method (m^2/kg,Min)	255.8	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	195 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative

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Certificate No : TC-5548

QC ABSTRACT

NAME OF WORK: Maintenance of UGD lines in Vinayakanagara and Varadarajanagara Areas in ward No.11 Kuvempunagara

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Brick	Compressive Strength	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		EFFLORESCENCE	One Test		1	1
		DIMENSIONS AND TOLERANCES	One Test		1	1
6	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	3 set /16-30 cum	17.36	3	8
7	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-12-27-26** **Date: 22-12-22**
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Address	:	Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Project Name	:	Maintenance of UGD lines in Vinayakanagara and Varadarajanagara Areas in ward No.11 Kuvempunagara
Agency	:	Sri. Charan N S, No,186, 9th Cross, CIL Layout, Cholanayakanahalli, RT nagar, Bangalore-32
Customer's Reference	:	EE(Project)/Ynk Zone/WO/101/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-11-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	24-11-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.9N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.2N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.4N/mm^2	Not less than 53 N/mm^2

• The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-12-27-26** **Date: 26-11-22**
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Address	:	Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Project Name	:	Maintenance of UGD lines in Vinayakanagara and Varadarajanagara Areas in ward No.11 Kuvempunagara
Agency	:	Sri. Charan N S, No,186, 9th Cross, CIL Layout, Cholanayakanahalli, RT nagar, Bangalore-32
Customer's Reference	:	EE(Project)/Ynk Zone/WO/101/18-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	23-11-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	23-11-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	235	235	1.6	98.4	90-100
3	20 mm	5334	5569	37.1	62.9	30-70
4	10 mm	4788	10357	69.0	31.0	10-35
5	4.75 mm	4354	14711	98.1	1.9	0-5
6	Pan	291	15002	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-12-27-26** **Date: 26-11-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.24	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-12-27-26** **Date: 25-11-22**
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Address	:	Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Project Name	:	Maintenance of UGD lines in Vinayakanagara and Varadarajanagara Areas in ward No.11 Kuvempunagara
Agency	:	Sri. Charan N S, No,186, 9th Cross, CIL Layout, Cholanayakanahalli, RT nagar, Bangalore-32
Customer Reference	:	EE(Project)/Ynk Zone/WO/101/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-11-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	23-11-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	249	249	5.0	95.0	90-100
3	10 mm	2675	2924	58.5	41.5	25-55
4	4.75 mm	1798	4722	94.4	5.6	0-10
5	Pan	278	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-12-27-26** **Date: 25-11-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.2	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.50	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.28	–
7	Aggregate crushing Value(%)	23.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.2	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2022-12-27-26** **Date: 25-11-22**
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Address	:	Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Project Name	:	Maintenance of UGD lines in Vinayakanagara and Varadarajanagara Areas in ward No.11 Kuvempunagara
Agency	:	Sri. Charan N S, No,186, 9th Cross, CIL Layout, Cholanayakanahalli, RT nagar, Bangalore-32
Customer's Reference	:	EE(Project)/Ynk Zone/WO/101/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-11-22
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	23-11-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	75	75	7.5	92.5	90-100	90-100	90-100	95-100
3	2.36 mm	165	240	24.0	76.0	60-95	75-100	85-100	95-100
4	1.18 mm	184	424	42.4	57.6	30-70	55-90	75-100	90-100
5	600 micron	182	606	60.6	39.4	15-34	35-59	60-79	80-100
6	300 micron	177	783	78.3	21.7	5-20	8-30	12-40	15-50
7	150 micron	134	917	91.7	8.3	0-10	0-10	0-10	0-15
8	Pan	83	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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Certificate No.: TC-5548

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-12-27-26**

Date: 25-11-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.86	-
2	Specific Gravity	2.59	-
3	Material finer than 75 micron(%)	8.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Lab ID	:	**CP-2022-12-27-26** **Date: 07-12-22**
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone
Address	:	Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Project Name	:	Maintenance of UGD lines in Vinayakanagara and Varadarajanagara Areas in ward No.11 Kuvempunagara
Agency	:	Sri. Charan N S, No,186, 9th Cross, CIL Layout, Cholanayakanahalli, RT nagar, Bangalore-32
Customer's Reference	:	EE(Project)/Ynk Zone/WO/101/18-19
Source of sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-12-22
Identification Mark on Brick	:	Wire Cut Brick
Reference to BIS codes	:	IS 1077 : 1992 (RA 2021) Common Burnt Clay Building Bricks-Specification IS 3495 (Part 1 to 3) : 1992(RA 2019) Method of Tests Burnt Clay Building Bricks Part 1:Determination of Compressive Strength, (Cl 4.2.3) Part 2:Determination of Water Absorption,(Cl 4.1.3) Part 3: Determination of Efflorescence, (Cl 4)
Date of test	:	01-12-22

COMPRESSIVE STRENGTH

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Failure Load (KN)	Compressive strength of individual bricks (N/mm^2)	Acceptablity as per IS 1077:1992, Clause 7.1
1	227.23	109.98	24991	198.6	7.9	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	229.68	108.62	24948	187.2	7.5	
3	232.22	107.99	25077	189.4	7.6	
4	231.11	107.54	24854	191.3	7.7	
5	227.92	106.98	24383	193.8	7.9	
Average of 5 bricks					7.7	

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Lab ID : CP-2022-12-27-26 Date: 07-12-22

WATER ABSORPTION:

Sl.No.	Dry Weight	Wet Weight	Water Absorption(%)	Acceptablity as per IS 1077:1992, Clause 7.2
1	2.965	3.255	9.8	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	2.865	3.176	10.9	
3	2.906	3.196	10.0	
4	2.966	3.255	9.7	
5	2.885	3.218	11.5	
Average Water Absorption(%)			10.4	

EFFLORESCENCE:

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Efflorescence	Acceptablity as per IS 1077:1992, Clause 7.3
1	229.18	108.98	24976	Moderate	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higer classes.
2	228.98	109.18	25000	Moderate	
3	228.18	108.39	24732	Slight	
4	230.19	107.98	24856	Moderate	
5	228.13	109.19	24910	Moderate	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4630	4520 to 4680 mm
2	Width	2200	2160 to 2240 mm
3	Height	1405	1360 to 1440 mm

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 24/12/2022

Lab ID	:	CP-2022-12-27-26
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Address	:	Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Project Name	:	Maintenance of UGD lines in Vinayakanagara and Varadarajanagara Areas in ward No.11 Kuvempunagara
Agency	:	Sri. Charan N S, No.186, 9th Cross, CIL Layout, Cholanayakanahalli, RT nagar, Bangalore-32
Customer's Reference	:	EE(Project)/Ynk Zone/WO/101/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-12-22
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Concrete Pavement	M30	17/12/2022	24/12/2022	150.98 X 149.16 X 150.45	22520	9.061	569.7	25.3	25.3
2	Cement Concrete Pavement	M30	17/12/2022	24/12/2022	149.61 X 151.34 X 151.18	22642	8.370	589.5	26.0	
3	Cement Concrete Pavement	M30	17/12/2022	24/12/2022	151.87 X 149.82 X 150.34	22754	8.712	560.6	24.6	

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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

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Project Division
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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID	:	**CP-2022-12-27-26**
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone BBMP, Bangalore. **Date: 24/12/2022**
Address	:	Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Project Name	:	Maintenance of UGD lines in Vinayakanagara and Varadarajanagara Areas in ward No.11 Kuvempunagara
Agency	:	Sri. Charan N S, No,186, 9th Cross, CIL Layout, Cholanayakanahalli, RT nagar, Bangalore-32
Customer's Reference	:	EE(Project)/Ynk Zone/WO/101/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-12-22
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Concrete Pavement	M30	17/12/2022	24/12/2022	149.08 X 149.17 X 149.34	22238	8.193	565.0	25.4	25.7
2	Cement Concrete Pavement	M30	17/12/2022	24/12/2022	150.43 X 151.54 X 149.18	22796	8.372	612.0	26.8	
3	Cement Concrete Pavement	M30	17/12/2022	24/12/2022	149.20 X 150.36 X 149.38	22434	8.324	556.6	24.8	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-12-27-26 **Date: 24/12/2022**

Customer : Assistant Executive Engineer, Project Sub Division, Yelahanka Zone BBMP, Bangalore.

Address : Project Sub Division, Yelahanka Zone BBMP, Bangalore.

Project Name : Maintenance of UGD lines in Vinayakanagara and Varadarajanagara Areas in ward No.11 Kuvempunagara

Agency : Sri. Charan N S, No,186, 9th Cross, CIL Layout, Cholanayakanahalli, RT nagar, Bangalore-32

Customer's Reference : EE(Project)/Ynk Zone/WO/101/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-12-22

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	17/12/2022	24/12/2022	149.62 X 150.91 X 151.70	22578	9.040	576.1	25.5	25.4
2	Cement Concrete Pavement	M30	17/12/2022	24/12/2022	150.36 X 149.36 X 149.09	22458	8.635	589.5	26.2	
3	Cement Concrete Pavement	M30	17/12/2022	24/12/2022	150.15 X 151.79 X 149.36	22791	8.887	558.3	24.5	

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Certificate No.: TC-5548

Format No: CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	**CP-2022-12-27-26** **Date: 29-11-22**
Customer	:	Assistant Executive Engineer, Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Address	:	Project Sub Division, Yelahanka Zone BBMP, Bangalore.
Project Name	:	Maintenance of UGD lines in Vinayakanagara and Varadarajanagara Areas in ward No.11 Kuvempunagara
Agency	:	Sri. Charan N S, No,186, 9th Cross, CIL Layout, Cholanayakanahalli, RT nagar, Bangalore-32
Customer's Reference	:	EE(Project)/Ynk Zone/WO/101/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-11-22
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	26-11-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	77	77	7.7	92.3	90-100
3	1.18 mm	205	282	28.2	71.8	70-100
4	600 micron	155	437	43.7	56.3	40-100
5	300 micron	105	542	54.2	45.8	5-70
6	150 micron	358	900	90.0	10.0	0-15
7	Pan	100	1000	100.0	0.0	0

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Certificate No.: TC-5548

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2022-12-27-26** **Date: 29-11-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.77	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	11.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.92	–
5	Loose Bulk Density (Kg/litre)	1.78	–

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